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1 Research session: data warehousing and archive: An adaptive peer-to-   86%
peer network for distributed caching of OLAP results
Panos Kalnis , Wee Siong Ng , Beng Chin Ooi , Dimitris Papadias , Kian-Lee Tan
**Proceedings of the 2002 ACM SIGMOD international conference on Management
of data** June 2002
> Peer-to-Peer (P2P) systems are becoming increasingly popular as they enable users
> to exchange digital information by participating in complex networks. Such systems
> are inexpensive, easy to use, highly scalable and do not require central
> administration. Despite their advantages, however, limited work has been done on
> employing database systems on top of P2P networks.Here we propose the PeerOLAP
> architecture for supporting On-Line Analytical Processing queries. A large number
> low-end clients, eac ...

2 Low-energy off-chip SDRAM memory systems for embedded applications 68%
Hojun Shim , Yongsoo Joo , Yongseok Choi , Hyung Gyu Lee , Naehyuck Chang
ACM Transactions on Embedded Computing Systems (TECS) February 2003
Volume 2 Issue 1
> Memory systems are dominant energy consumers, and thus many energy reduction
> techniques for memory buses and devices have been proposed. For practical energy
> reduction practices, we have to take into account the interaction between a processor
> and cache memories together with application programs. Furthermore, energy
> characterization of memory systems must be accurate enough to justify various
> techniques. In this article, we build an in-house energy simulator for memory
> systems that is accelerat ...

3 Using LDAP directory caches   61%
Sophie Cluet , Olga Kapitskaia , Divesh Srivastava
**Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on
Principles of database systems** May 1999

4 Open Computation Tree Logic for Formal Verification of Modules   49%
Pallab Dasgupta , Arindam Chakrabarti , P. P. Chakrabarti
Proceedings of the 2002 conference on Asia South Pacific design automation/VLSI Design January 2002
> Modules of large VISI circuits are often designed by different designers spread across the globe. One of the main challenges of the designer is to guarantee that the module he/she designs will work correctly in the global design, the details of which, is often unknown to him/her. Modules are open systems whose behavior is subject to the inputs it receives from its environment. It has been shown that verification of open systems (modules) is computationally very hard (EXPTIME complete [7]) when w ...

5 Multidatabase systems: Engineering an SQL gateway to IMS   34%
G. N. Paulley
Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2 October 1993
> Multidatabase systems enable organizations to integrate legacy database systems, and their applications, with newer database technology. One such legacy system is IBM'S Information Management System (IMs), a hierarchical database management system developed in the 1960s. Commercial IMS gateways typically suffer from poor performance and lack essential features needed to support updates. In this paper, we outline the engineering issues of constructing a multi-user IMS gateway that supports both c ...

6 Features: Caching XML Web Services for Mobility   20%
Queue May 2003
Volume 1 Issue 3

7 MPI versus MPI+OpenMP on IBM SP for the NAS benchmarks   20%
Franck Cappello , Daniel Etiemble
Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM) November 2000
> The hybrid memory model of clusters of multiprocessors raises two issues: programming model and performance. Many parallel programs have been written by using the MPI standard. To evaluate the pertinence of hybrid models for existing MPI codes, we compare a unified model (MPI) and a hybrid one (OpenMP fine grain parallelization after profiling) for the NAS 2.3 benchmarks on two IBM SP systems. The superiority of one model depends on 1) the level of shared memory model parallelization, 2) th ...

8 Special system-oriented section: the best of SIGMOD '94: Sleepers and   14%
workaholics: caching strategies in mobile environments (extended version)
Daniel Barbará , Tomasz Imieliński
The VLDB Journal — The International Journal on Very Large Data Bases October 1995
Volume 4 Issue 4
> In the mobile wireless computing environment of the future, a large number of users, equipped with low-powered palmtop machines, will query databases over wireless communication channels. Palmtop-based units will often be disconnected for prolonged periods of time, due to battery power saving measures; palmtops also will frequently relocate between different cells, and will connect to different data servers at different times. Caching of frequently accessed data items will be an important techni ...

9 System-level power optimization: techniques and tools   2%
Luca Benini , Giovanni de Micheli
ACM Transactions on Design Automation of Electronic Systems (TODAES) April
2000
Volume 5 Issue 2
> This tutorial surveys design methods for energy-efficient system-level design. We
> consider electronic sytems consisting of a hardware platform and software layers. We
> consider the three major constituents of hardware that consume energy, namely
> computation, communication, and storage units, and we review methods of reducing
> their energy consumption. We also study models for analyzing the energy cost of
> software, and methods for energy-efficient software design and compilation. This
> survery ...

10 Ad hoc and sensor networks: Distributed algorithms for guiding   1%
navigation across a sensor network
Qun Li , Michael De Rosa , Daniela Rus
**Proceedings of the 9th annual international conference on Mobile computing and
networking** September 2003
> We develop distributed algorithms for self-organizing sensor networks that respond to
> directing a target through a region. The sensor network models the danger levels
> sensed across its area and has the ability to adapt to changes. It represents the
> dangerous areas as obstacles. A protocol that combines the artificial potential field of
> the sensors with the goal location for the moving object guides the object
> incrementally across the network to the goal, while maintaining the safest distance
> to ...

11 Software-Only Bus Encoding Techniques for an Embedded System   1%
Wei-Chung Cheng , Jian-Lin Liang , Massoud Pedram
**Proceedings of the 2002 conference on Asia South Pacific design
automation/VLSI Design** January 2002
> Microprocessors with built-in Liquid Crystal Device (LCD) controllers and equipped
> with Flash memory are common in mobile computing applications. In the first part of
> the paper, a software-only encoding technique is proposed to reduce the power
> consumption of the processor-memory bus when displaying an image on the LCD.
> Based on the translation mechanism of the LCD controller, our approach is to start
> with the palette as a coding table for the pixel buffer and then reassign the codes
> according t ...

12 Database system implementation: Performance analysis of a relational   1%
data base management system
Paula Hawthorn , Michael Stonebraker
**Proceedings of the 1979 ACM SIGMOD international conference on Management
of data** May 1979
> The effect on the performance of data management systems of the use of extended
> storage devices, multiple processors and prefetching data blocks is analyzed with
> respect to one system, INGRES. Benchmark query streams, derived from user
> queries, were run on the INGRES system and their CPU usage and data reference
> patterns traced. The results show that the performance characteristics of two query
> types: data-intensive queries and overhead-intensive queries, are so different that it
> may be difficul ...

1%

13 An architecture for a secure service discovery service
Steven E. Czerwinski , Ben Y. Zhao , Todd D. Hodes , Anthony D. Joseph , Randy H. Katz
Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking August 1999

14 Modeling and simulation of LAN DBMS performance　　　　　　　　0%
Paul Lieh-san Lin
Proceedings of the 22nd annual symposium on Simulation March 1989
Which is better: the personal computer-oriented distributed processing DBMS such as dBase III Plus and R:Base System V or the minicomputer-like back-end DBMS such as LANserver and Oracle? This is a question of importance to LAN DBMS administrators and users. In this study, the architecture of a database server and that of a distributed processing DBMS are modeled and simulated under conditions where workstations on a LAN request complicated queries that require large join operations to take ...

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